

**Chapter 3 Preview**  
**Equations and Inequalities**  
**Integrated Math 2**

Name \_\_\_\_\_

Date \_\_\_\_\_

**Definitions: Define the following terms**

1. Equation
2. True equation
3. False equation
4. Open sentence
5. Solution of the equation
6. Formula
7. Addition property of equality
8. Multiplication property of equality
9. Model
10. Mathematical model
11. Algebraic model
12. Rule
13. Two-step equation
14. Proportion

15. Means\*
16. Extremes\*
17. Cross-products\*
18. Inequality
19. False inequality
20. True inequality
21. Open inequality
22. Solution of the inequality
23. Solve an inequality
24. Addition property of inequality
25. Multiplication property of inequality
26. Inverse of an operation

\* = Know it, but you won't have to define it

**You *should* be able to do the following objectives:**

1. Determine if a number is a solution of an equation
2. Solve an equation or formula
3. Solve one-step equations
4. Solve formulas for a given variable
5. Create a mathematical model to describe a situation
6. Solve two-step equations and formulas
7. Write and solve proportions
8. Determine if a number is a solution of an inequality
9. Graph the solution of an inequality on a number line
10. Solve and graph inequalities on a number line
11. Solve problems involving inequalities
12. Solve problems involving squares
13. Solve problems involving square roots

If you can give a good definition for each term without having to look it up, then you should be ready to identify these terms for the test. If you can describe a method as to how to perform each of the objectives, then you should be ready to perform these tasks on the test. If there are any terms or objectives that you are unsure about, then these are the things you want to take extra time studying.

**Check the class wiki for wiki summary assignments.**